Continuous Inkjet

Videojet 1880 HR

Take quality to the next level with superior high-resolution micro-printing

VIDEOJET

Ensure exceptional micro-coding

Built on the 1880 + platform and equipped with unique connectivity capabilities, the 1880 HR produces high-resolution characters at the smallest scale through optimized fonts, a redesigned printhead, and advanced hydraulics. With a sustainable, low-maintenance design, this printer has been engineered to meet your needs for 2D, QR, and track and trace coding. It was developed to ensure the most reliable and consistent codes for various applications, including electronics, pharmaceuticals, cosmetics, and confectionery.
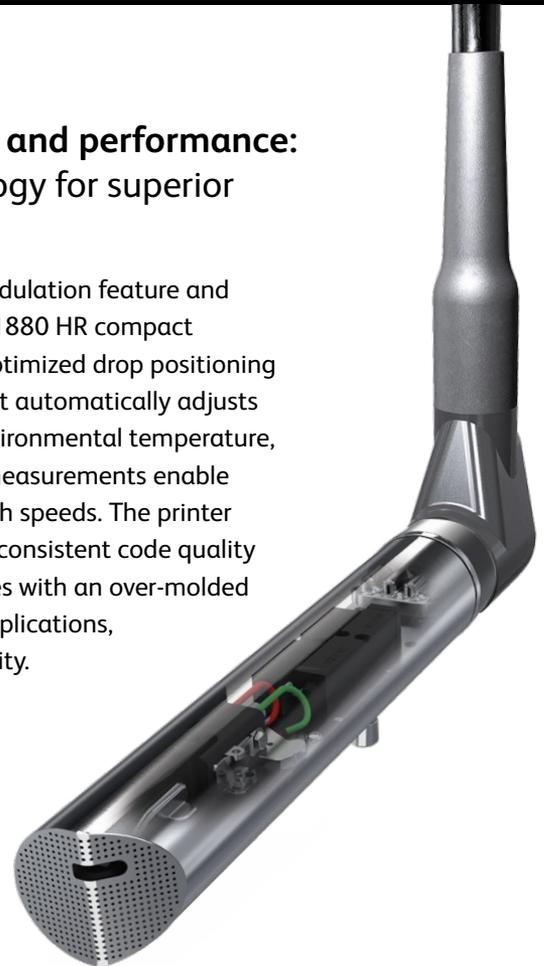
HR
HIGH RESOLUTION

High-resolution micro codes at optimum quality

The 1880 HR delivers remarkable code quality down to 1.2mm in height and at speeds up to 394 meters per minute. This model offers up to three lines of print and complex 2D codes – ideal for applications where legibility is critical and print space is limited. Combined with halogen-free electronics inks, the 1880 HR can help address industry regulatory standards.

Unleash precision and performance: Advanced technology for superior print quality

With its updated auto-modulation feature and advanced hydraulics, the 1880 HR compact printhead design offers optimized drop positioning and superior jet stability. It automatically adjusts the ink stream per the environmental temperature, while real-time viscosity measurements enable precise drop control at high speeds. The printer helps ensure optimal and consistent code quality for each font. It also comes with an over-molded umbilical for traversing applications, delivering superior durability.

Customized fonts for micro-coding

By refining the design of printed characters, print fonts have been improved, so that the 1880 HR maintains exceptional print quality, even for micro-codes. Specialized QR code fonts allow the 1880 HR to deliver crisp, clean codes for traceability.

LOT AB23CDE
EXP 231231

Videojet 1880 HR high-resolution inkjet code

Simplify routine maintenance:
Planned annual module replacement in less than 5 minutes

With color-coded, easy-to-replace Videojet SmartCell™ components, the 1880 HR significantly minimizes maintenance downtime and offers optimal performance with long periods between interventions and fewer necessary touches.

Maximize uptime:
Proactive alerts, effortless cleaning, and fewer touches

An innovative sensor helps to enable printhead ink build-up detection, alerting users to potential print quality issues before they escalate. The convenient auto-rinse feature ensures a hassle-free, consistent, and efficient printhead cleaning process with a simple click. Say goodbye to ink build-up-related code clipping, as this innovative system virtually eliminates it. What's more, the printer boasts an upgraded hydraulic management system, an extended make-up tank, and the added flexibility of using larger, one-liter cartridges.

Cuts fluid changes by up to 33%

Leverage enhanced connectivity:
Seamless integration and enhanced productivity

EtherNet/IP
ODVA

PROFI NET®

Designed to deliver all the connectivity you need, the 1880 HR intelligent I/O capabilities offer standard industrial protocols for seamless integration into your production systems. It also takes CIJ printing performance to a higher level with built-in Wi-Fi and cellular* connectivity. It provides easy, secure wireless communications, enabling VideojetConnect™ Remote Service to automate troubleshooting, simplify remote operation, and improve overall printer and line productivity in real-time.

* Subject to availability in your country

Pharma – paperboard

Electronics – plastic

Cosmetics – glass

Electronic components – plastic

Videojet® 1880 HR
Continuous Inkjet

Line speed capability
Can print 1 to 3 lines of print at speeds of up to 1,294 ft/min (394 m/min)
(10 characters per inch, single line of print)

Font matrix configuration
Single-line: 4x5, 5x5, 4x7, 5x7, 7x9, 9x12, 10x16, 16x24
Twin-line: 4x5, 5x5, 4x7, 5x7, 7x9
Tri-line: 4x5, 5x5, 4x7, 5x7

Linear bar codes
UPC A&E; EAN 8 & 13; Code 128 A, B & C; UCC/EAN 128;
Code 39; Interleaved 2 of 5; GS1

QR codes
21x21, 25x25
Error correction mode L, M, Q or H

DataMatrix codes
10x10, 12x12, 14x14, 16x16, 8x18, 18x18, 20x20, 22x22, 24x24, 12x26,
8x32, 12x36, 16x36, 16x48

Nominal character height
Selectable from 0.047" (1.2mm) to 0.236" (6mm), depending on font

Throw distance
Optimal: 0.335" (8.5mm)
Range: 0.197" (5mm) to 0.472" (12mm)

User interface
10.4" high-response TFT-LCD touch screen
WYSIWYG touch to edit message editing

Custom logo/graphics
Can be created via optional CLARiSOFT™ software*

Character sets
Chinese, Russian/Bulgarian, Turkish/Scandinavian, Romanian, Greek, Arabic,
Japanese/Kanji, Hebrew, Korean, East European and European/American

Languages and interface options
English, Arabic, Bulgarian, Czech, Danish, Dutch, Finnish, French, German, Greek,
Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian,
Russian, Serbian, Simple Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish
and Vietnamese

Input/output
Product detect input; Encoder input; Beacon (Alarm light) output; Relay output;
USB 2.0 (2x); Ethernet LAN™; Built-in Wi-Fi

Message storage
More than 250 complex messages

Environmental protection
IP55 standard, no plant air required, stainless steel cabinet
IP66 protected electronics optional

* CLARiSOFT™ Package Coding Design software required for certain bar codes and other
advanced functionality.

Heated printhead
CleanFlow™ including positive air, no plant air required (optional)
Diameter: 1.63" (41.3mm)
Length: 10.62" (269.8mm)

Printhead umbilical
Ultra flexible Length: 9.84' (3m) optional 19.69' (6m)
Diameter: 0.91" (23mm)
Bend radius: 4.0" (101.6mm)

Make-up consumption
2.6ml per hour (MEK at 20°C)

Fluids containers
Ink and Make-up Smart Cartridge™ 0.793 qt. (750ml); 1.06 qt. (1000ml)

Temperature/humidity range
41°F to 113°F (5°C to 45°C)
0% to 90% RH non-condensing
With selected inks; actual installation may require additional hardware
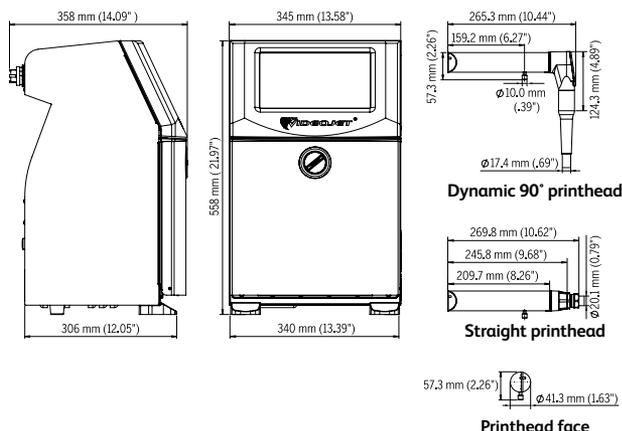*based on production environment conditions*

Electrical requirements
Nominal supply power 100-120 / 200-240 VAC at 50/60 Hz., 70W

Approximate weight
Unpacked and dry: 46.3lbs. (21kg)

Options
Dust protection kit with CleanFlow™ technology
Dry air kit for high humidity (requires plant air)
Cellular communication
RS232 connector kit (USB to Serial DIN-5 male adapter)
SIMPLICiTY™ Workflow Modules
Wide range of accessories

Dynamic 90° printhead

Straight printhead

Printhead face